

ZOOLOGICA

SCIENTIFIC CONTRIBUTIONS
OF THE
NEW YORK ZOOLOGICAL SOCIETY

VOLUME XXVI-27

1941-42

Numbers 1-30

PUBLISHED BY THE SOCIETY
THE ZOOLOGICAL PARK, NEW YORK

NEW YORK ZOOLOGICAL SOCIETY

General Office: 630 Fifth Avenue, New York City

OFFICERS

President, FAIRFIELD OSBORN

First Vice-President, ALFRED ELY

Chairman, Executive Committee & Second Vice-President, LAURANCE S. ROCKEFELLER

Treasurer, CORNELIUS R. AGNEW

General Director, Zoological Park and Aquarium, ALLYN R. JENNINGS

Assistant General Director, HARRY SWEENEY, JR.

Consultant, JEAN DELACOUR

SCIENTIFIC STAFF

Zoological Park

RAYMOND L. DITMARS, *Curator of Reptiles and Insects*

LEE S. CRANDALL, *Curator of Birds*

CLAUDE W. LEISTER, *Curator of Mammals and Educational Activities*

LEONARD J. GOSS, *Curator of Health*

WILLIAM BRIDGES, *Editor and Curator of Publications*

Aquarium in the Zoological Park

CHARLES M. BREDER, JR., *Director*

CHRISTOPHER W. COATES, *Aquarist*

ROSS F. NIGRELLI, *Pathologist*

G. M. SMITH, *Research Associate in Pathology*

HOMER W. SMITH, *Research Associate in Physiology*

MYRON GORDON, *Research Associate in Genetics*

Department of Tropical Research

WILLIAM BEEBE, *Director*

JOHN TEE-VAN, *General Associate*

GLORIA HOLLISTER, *Research Associate*

JOCELYN CRANE, *Technical Associate*

Editorial Committee

FAIRFIELD OSBORN, *Chairman*

ALLYN R. JENNINGS

WILLIAM BEEBE

CHARLES M. BREDER, JR.

HARRY SWEENEY, JR.

JEAN DELACOUR

WILLIAM BRIDGES

CONTENTS.

PAGE

PART 1. MAY 26, 1941.

| | |
|--|----|
| 1. A New Crayfish from San Luis Potosi, Mexico. (Decapoda, Astacidae). By HORTON H. HOBBS, JR. (Text-figure 1)..... | 1 |
| 2. A New <i>Corydoras</i> from Brazil. By F. R. LAMONTE..... | 5 |
| 3. Notes on Plumage Changes in the Bald Eagle. By LEE S. CRANDALL. (Plates I-IV)..... | 7 |
| 4. External Characters of Six Embryo Nurse Sharks, <i>Ginglymostoma cirratum</i> (Gmelin). By WILLIAM BEEBE. (Plates I & II; Text-figures 1-4)..... | 9 |
| 5. A Papillomatous Disease of the Gallbladder Associated with Infection by Flukes, Occurring in the Marine Turtle, <i>Chelonia mydas</i> (Linnaeus). By G. M. SMITH, C. W. COATES & R. F. NIGRELLI. (Plates I-IV; Text-figure 1).... | 13 |
| 6. Eastern Pacific Expeditions of the New York Zoological Society. XXIII. Polychaetous Annelids from the West Coast of Mexico and Central America. By AARON L. TREADWELL. (Text-figures 1-21)..... | 17 |
| 7. Plankton of the Bermuda Oceanographic Expeditions. X. Polychaetous Annelids from Bermuda Plankton, with Eight Shore Species, and Four from Haiti. By AARON L. TREADWELL. (Text-figures 1-9)..... | 25 |
| 8. Caudal Skeleton of Bermuda Shallow Water Fishes. V. Order Percomorphi: Carangidae. By GLORIA HOLLISTER. (Text-figures 1-20)..... | 31 |
| 9. Description of an Egg of the Long-tailed Bird of Paradise. By LEE S. CRANDALL. (Plate I)..... | 47 |
| 10. On the Uterine Young of <i>Dasyatus sabinus</i> (LeSueur) and <i>Dasyatus hastatus</i> (De Kay). By C. M. BREDER, JR., & LOUIS A. KRUMHOLZ. (Text-figures 1 & 2)..... | 49 |
| 11. Additional Social and Physiological Aspects of Respiratory Behavior in Small Tarpon. By ARTHUR SHLAIFER..... | 55 |
| 12. Notes on Mexican Snakes of the Genus <i>Trimeresurus</i> . By HOBART M. SMITH.. | 61 |

PART 2. SEPTEMBER 8, 1941.

| | |
|--|----|
| 13. The Life History and Bionomics of the Trematode, <i>Zygocotyle lunata</i> (Paramphistomidae). By CHARLES H. WILLEY. (Plates I-IV)..... | 65 |
| 14. Eastern Pacific Expeditions of the New York Zoological Society. XXIV. Fishes from the Tropical Eastern Pacific. [From Cedros Island, Lower California, South to the Galápagos Islands and Northern Peru.] Part 1. Lancelets and Hag-fishes. By WILLIAM BEEBE & JOHN TEE-VAN. (Text-figures 1 & 2)..... | 89 |
| 15. Eastern Pacific Expeditions of the New York Zoological Society. XXV. Fishes from the Tropical Eastern Pacific. [From Cedros Island, Lower California, South to the Galápagos Islands and Northern Peru.] Part 2. Sharks. By WILLIAM BEEBE & JOHN TEE-VAN. (Plates I & II; Text-figures 1-34)..... | 93 |

176⁰⁰
34
20+1

16. Correlations Between Structural Eye Defects and Behavior in the Mexican Blind Characin. By CHARLES M. BREDER, JR., & EDWARD B. GRESSER. (Plates I-IV; Text-figures 1 & 2)..... 1
17. On the Species of *Otus scops*. By JEAN DELACOUR. (Text-figures 1-10)..... 1
18. A New Genus of Kaleege Pheasants. By MARQUESS HACHISUKA..... 1

PART 3. OCTOBER 31, 1941.

19. Eastern Pacific Expeditions of the New York Zoological Society. XXVI. Crabs of the Genus *Uca* from the West Coast of Central America. By JOCELYN CRANE. (Plates I-IX; Text-figures 1-8)..... 1
20. Eastern Pacific Expeditions of the New York Zoological Society. XXVII. A Study of Young Sailfish (*Istiophorus*). By WILLIAM BEEBE. (Plates I-V; Text-figures 1-9)..... 2
21. On the Reproduction of *Opsanus beta* Goode & Bean. By CHARLES M. BREDER, JR. (Plates I & II)..... 2
22. On the Reproductive Behavior of the Sponge Blenny, *Parachinus marmoratus* (Steindachner). By CHARLES M. BREDER, JR. (Plates I-III; Text-figure 1)..... 2
23. The Chromatophores of *Fundulus heteroclitus* in Polarized Light. By A. M. SHANES & ROSS F. NIGRELLI. (Plates I-III)..... 2
24. New Races of Alaudidae and Timaliidae from Northern Thailand. By H. G. DEIGNAN..... 2
25. Respiratory Behavior in Fishes Not Especially Modified for Breathing Air Under Conditions of Depleted Oxygen. By CHARLES M. BREDER, JR. (Plate I)..... 2
26. Eastern Pacific Expeditions of the New York Zoological Society. XXVIII. Fishes from the Tropical Eastern Pacific. [From Cedros Island, Lower California, South to the Galápagos Islands and Northern Peru.] Part 3. Rays, Mantas and Chimaeras. By WILLIAM BEEBE & JOHN TEE-VAN. (Plates I-IV; Text-figures 1-40)..... 2
27. Erotylidae of Kartabo, Bartica District, British Guiana. (Coleoptera.) By C. H. CURRAN. (Plate I; Text-figure 1)..... 2

PART 4. DECEMBER 29, 1941.

28. Further Studies on the Light Sensitivity and Behavior of the Mexican Blind Characin. By C. M. BREDER, JR., & EDWARD B. GRESSER. (Plate I; Text-figures 1 & 2)..... 2
29. Eastern Pacific Expeditions of the New York Zoological Society. XXIX. On the Growth and Ecology of Brachyuran Crabs of the Genus *Ocypode*. By JOCELYN CRANE. (Plates I & II; Text-figures 1-7)..... 2
30. High Speed Photographs of Flying Fishes in Flight. By H. E. EDGERTON & C. M. BREDER, JR. (Plates I-VIII)..... 3
- Index to Volume XXVI..... 3